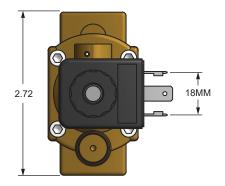


Series 3505

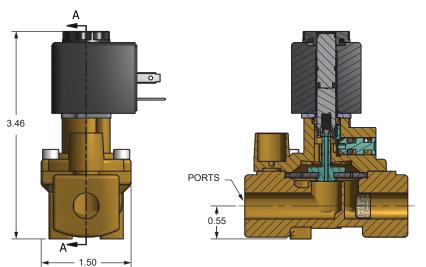
The Spartan Scientific Series 3505 is a 2-Way, 2-Position, internally piloted solenoid valve for the control of air, emulsion, inert gases and water. The valve features an all brass body and a full flow 1/2" orifice while maintaining a 1.5 minimum pressure differential. The design allows for a tight seal on the orifice at 0 psi. Available in 1/4", 3/8" and 1/2" NPT, the 3505 can handle pressures to 230 psi. The encapsulated coil construction ensures that the valve functions well under long periods of activation (100% duty), as well as providing a high degree of environmental protection (NEMA 4). The inner valve functions as a direct assist using a flat diaphragm and orifice plate. Pressure differentials shift the valve to full open or full closed. A push, non-locking manual override is standard.

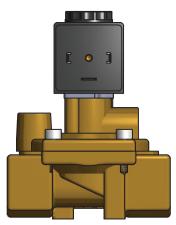
Dimensional Data

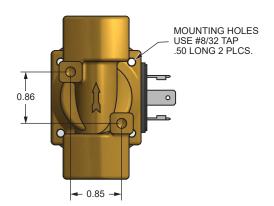
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED











FLOW DATA		
PORT SIZE	FLOW RATE	
1/4"	8.2 gpm	
3/8"	9.3 gpm	
1/2"	11.2 gpm	
120 psi ∆ p 25 psi		



Technical Data

Function: 2-Way, 2-Position; Inlet Pilot Diaphragm;

Normally Closed

Port Size / 1/4" NPT / 1.55 Cv Flow Factor:

3/8" NPT / 1.95 Cv 1/2" NPT / 2.45 Cv

Orifice Sizes: 12.7mm / 2.45 Cv

Pressure Range: 0 to 230 psi (depending on orifice size and function)

Note: Valve Requires 1.5 psi differential to fully open

Fluid Max.: +60°C Temp. Range:

Dry Range: Ambient +10° to +50°C

Response Time: 20 to 80ms Complete Cycle Media: Air, emulsion, inert gases, water

Manual Override: Push non-locking

Environment IP65 (IEC 144), NEMA 4

Protection: Dust-tight and water resistant (with electrical connector)

Mounting: Use #8 x 0.50" long self-tapping screws (2)

Wetted Materials: Elastomers: EPDM, FKM, NBR

Operator: 300 and 400 Series Stainless Steel

Shading Ring: Copper (AC Only) Springs: 300 Series Stainless Steel

Valve Body: Brass

Coil Data: Duty Cycle: Continuous (within specifications)

Encapsulation: Glass-Filled Nylon

Insulation: Class F

Power Rating: 6.5 Watt VDC, 8.5 VA VAC

(others available on request) Voltage: 6, 12, 24 VDC 24, 120, 220, 240 VAC 50/60 Hz

Voltage Tolerance: +/- 10% Nominal

Winding: Class H

Spades: Accordance with DIN Style "A" EN175301-803 Connections:

Flying Lead: PVC 22 AWG, Multi-Strand Copper Wire,

300V, 12" minimum length

Packaged Weight: 1.20 lbs.

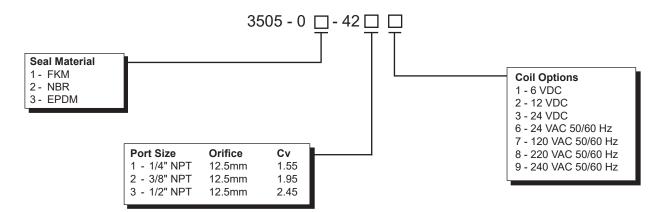
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VOLTAGE

	AC	DC
2/2 NC	230	180

MAX. PRESSURE RANGE (psi)

How To Order



Replacement Diaphragm Kits

Kit includes: Diaphragm and Orifice insert				
Specify Part Number				
FKM	3500-01-0001	Normally		
NBR	3500-B1-0001	Closed		
EPDM	3500-E1-0001	Olosed		

Order Example: 3505-01-4237

2-Way, N.C., FKM, 1/2" NPT,

120 VAC 50/60 Hz

